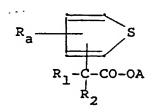
## Patent Claims

according to 51 9011744 B

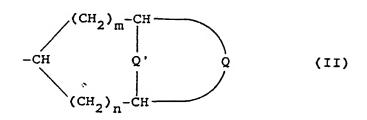
## 1. Compounds of the formula



(I),

in which

## A represents the group



wherein

m and n independently of one another denote 1 or 3

Q represents one of the double-bonding groups

and

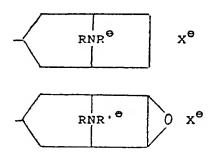
Q' represents the group =NR or the group =NRR', wherein R denotes H or an optionally halogen-substituted or hydroxy-substituted  $C_1$ - $C_4$ -alkyl radical, R' denotes a  $C_1$ - $C_4$ -alkyl radical and R and R' together may also form a  $C_4$ - $C_6$ -alkylene radical, and wherein, in the case of quaternary compounds, one equivalent of an anion (X') opposes the positive charge of the N atom,

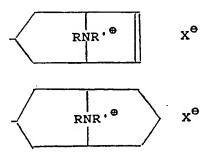
 $R_1$  represents a thienyl, phenyl, furyl, cyclopentyl or cyclohexyl radical, wherein these radicals may also be methyl-substituted, thienyl and phenyl may also be fluoro-substituted or chloro-substituted,

 $R_2$  represents hydrogen, OH,  $C_1-C_4$ -alkoxy or  $C_1-C_4$ -alkyl,

R<sub>a</sub> represents H, F, Cl or CH<sub>3</sub> and, if NR denotes a secondary or tertiary amino group, also the acid addition salts.

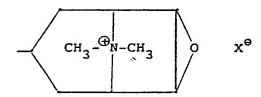
- 2. Compounds according to claim 1, wherein  $R_1$  represents 2-thienyl.
- 3. Compounds according to claim 1 or 2, wherein  $\mathbf{R}_{\mathbf{2}}$  represents OH.
- 4. Compounds according to claim 1, 2 or 3, wherein A represents





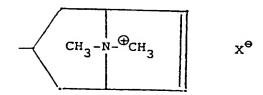
wherein R and X have the above meaning and R' has the above meaning except for hydrogen.

5. Compounds according to claims 1 to 4, in which  $\boldsymbol{R}_1$  denotes 2-thienyl and A represents the radical



or

· ;



in the  $3\alpha$ -form, wherein  $X^{-}$  is one equivalent of an anion, preferably Br or CH<sub>3</sub>SO<sub>3</sub>.

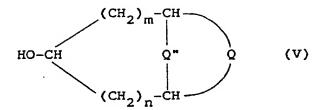
6. Medicaments characterised in that they contain a compound according to claims 1, 2, 3, 5 or 11 in addition to conventional auxiliaries and/or excipients.

- 7. Use of compounds according to claims 1 to 5 in the treatment of diseases.
- 8. Use of compounds according to claims 1 to 5 in the preparation of anti-cholinergic medicaments.
- 9. Use of compounds according to claims 1 to 5 in the preparation of medicaments for the treatment of respiratory tract diseases and sinus bradycardia.
- 6. 20. Process for the preparation of compounds according to claims 1 to 5, characterised in that an ester of the formula



wherein R" represents a  $C_1-C_4$ -alkyl radical and  $R_1$ ,  $R_2$  and  $R_3$  have the above meaning, is transesterified using an

amino alcohol of the formula



wherein m, n and Q have the above meaning and Q"
represents =NR or =NH,in an inert organic solvent or in
a melt, in the presence of a transesterification
catalyst, and the compound obtained is optionally
quaternised

a) if Q" denotes =NR  $(R \bowtie H)$ , using a reactive monofunctionalised derivative  $Z-(C_1-C_4-alkyl)$  of an alkane (Z = leaving group)

or is optionally substituted and quaternised

b) if Q" denotes =NH, using a terminally disubstituted alkane  $Z-(C_4-C_6-alkylene)-Z$  without isolation of intermediates.

7. 2. Compounds of the formula

in the  $3\alpha$ -form and their acid addition salts and their methodromides or methomethanesulphonates.

12. Use of compounds of the formula I, wherein Q' denotes =NR, and their salts as intermediate products for the preparation of the corresponding quaternary compounds of the formula I.